## Related Pending Application

Related Case Serial No: 09/577,496

Related Case Filing Date: 05-25-00

## WHAT IS CLAIMED IS:

10

15

A coordinates detection apparatus comprising:

a display surface;

two optical units provided at different positions on the border of said display surface, each of said optical unit having a light emitter, a diffusion lens, a read lens, and a light-receiver; and

a recursive reflection section located at the border of said display surface and which reflects a light emitted from said light-emitter and diffused by said diffusion lens in a fan form towards said light-emitter;

wherein said light-emitter and said light-receiver are so located that their optic axes are coincident,

wherein the coordinates of a point specified on said display surface are detected by focusing the light reflected on said reflection section with said read lens, receiving the reflected light with said light-receiver, and determining the position where reception of the light is hindered.

- 20 2. The coordinates detection apparatus according to claim
  1, wherein a half mirror is located on the optic axes of said
  light-emitter and said light-receiver.
  - 3. The coordinates detection apparatus according to claim
- 25 2, wherein said light-emitter, said diffusion lens, said read

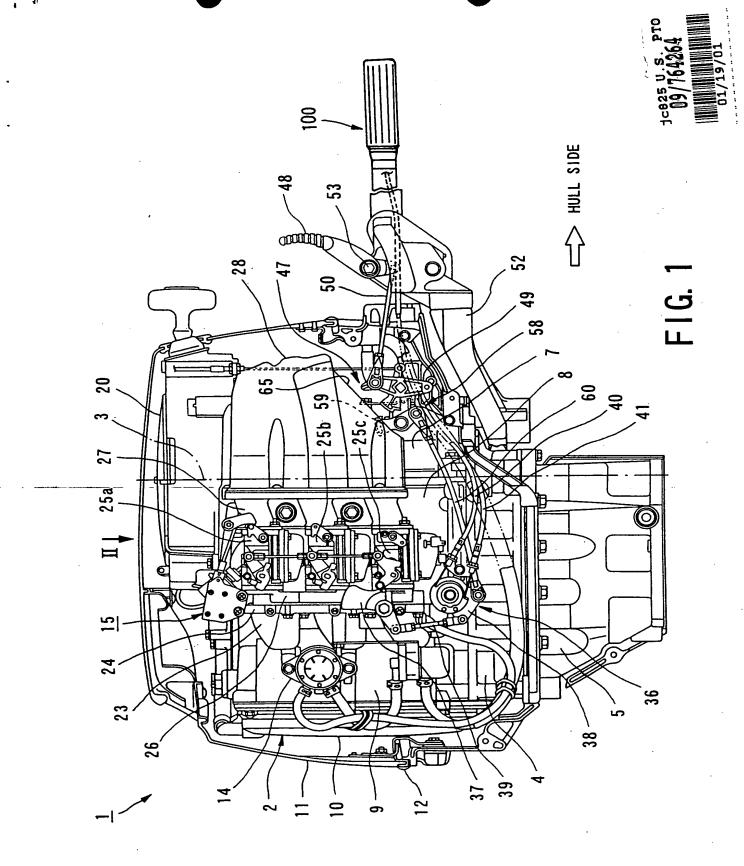


lens, said light-receiver, and said half mirror are mounted in a frame.

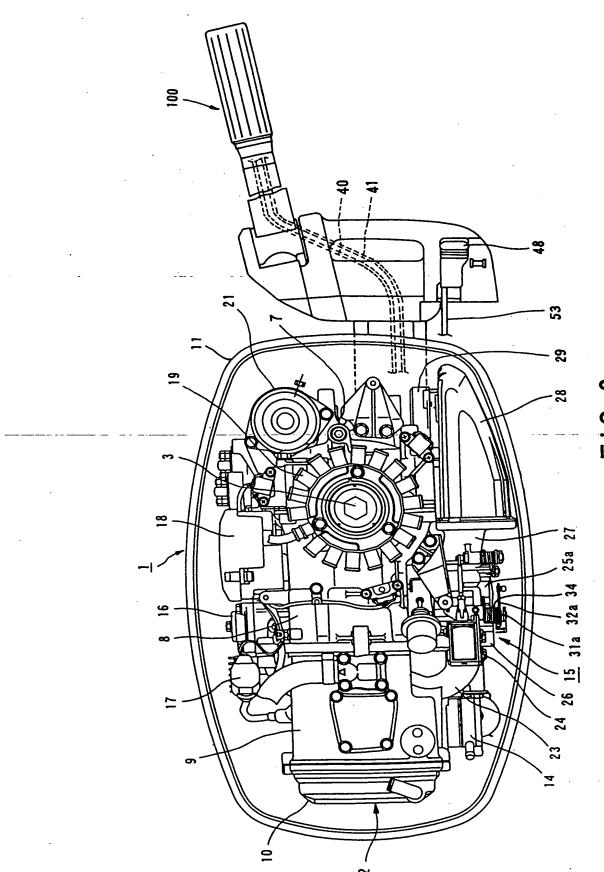
- 4. The coordinates detection apparatus according to claim
  1, wherein the center of the light diffused by said diffusion
  lens and a principal point of said read lens are coincident to
  each other.
- The coordinates detection apparatus according to claim
   1, wherein said optical unit has a mechanism which optically
   adjusts said light-emitter and said light-receiver.
  - 6. The coordinates detection apparatus according to claim 1, wherein said optical unit is located at a position close to said display surface.

15

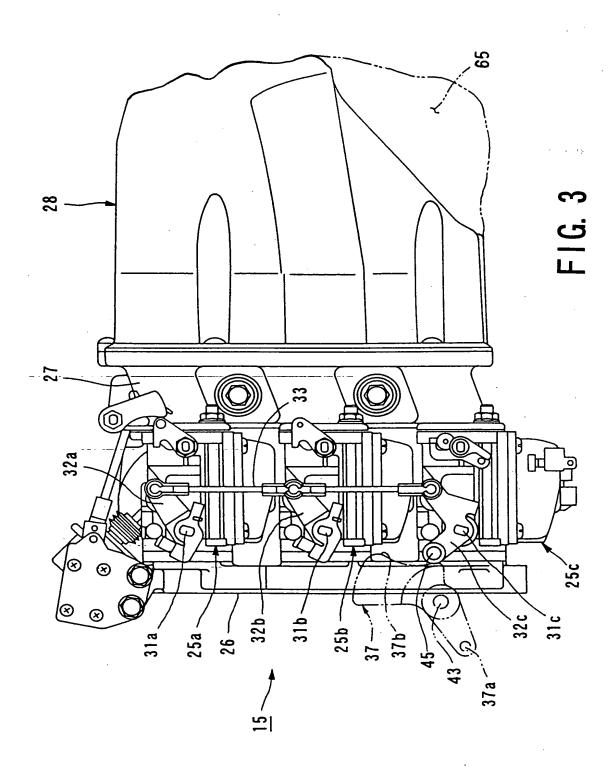
- 7. The coordinates detection apparatus according to claim1, further comprising:
- a mounting position adjustment mechanism which adjust a mounting position of said optical unit.



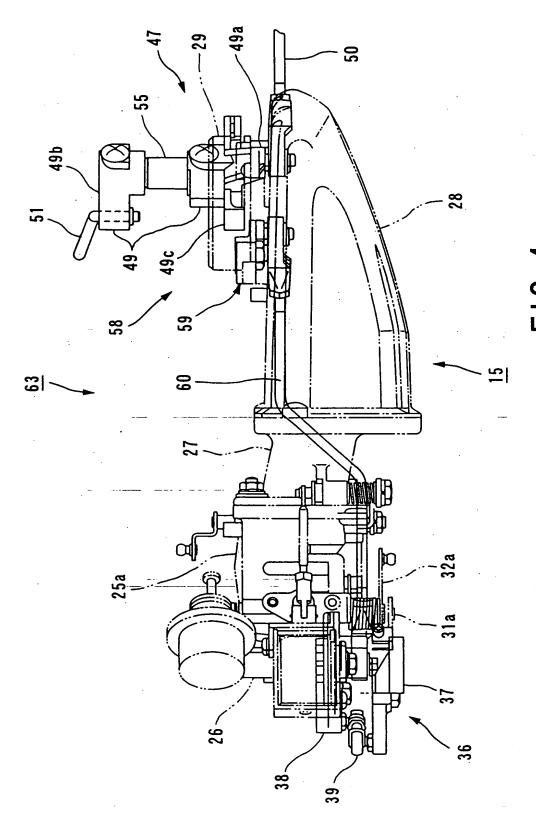
٠... د



F16. 2



\_)



F16. 4

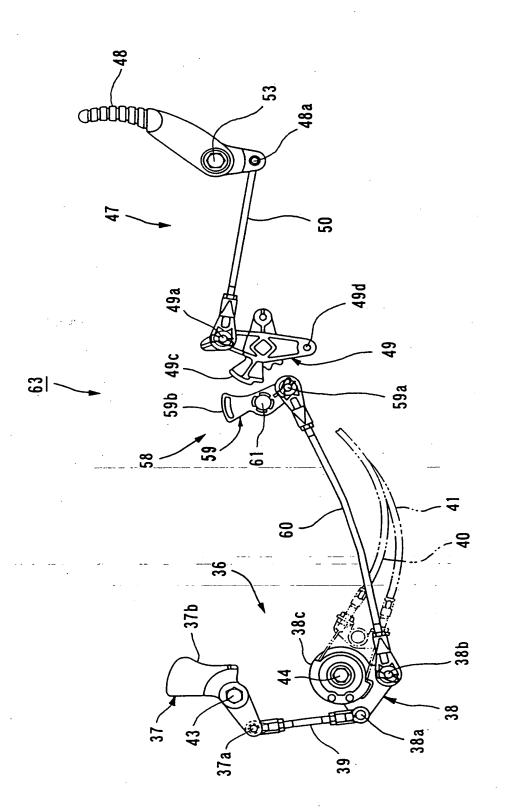


FIG. 5

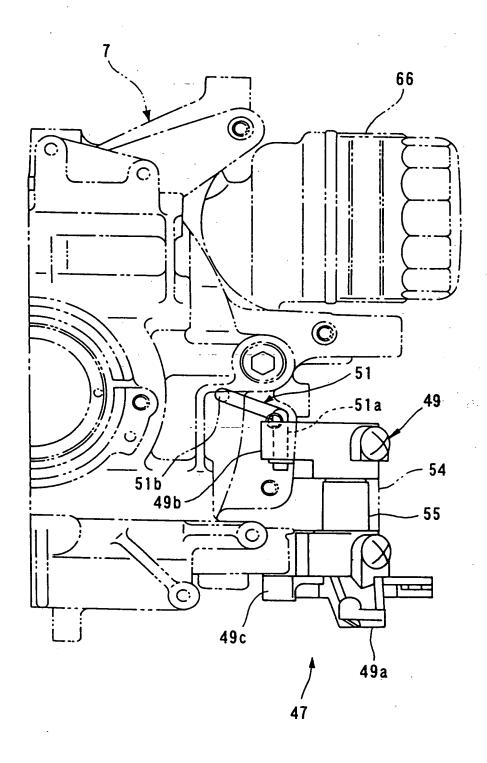


FIG. 6